1. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-6x-7}{8} - \frac{3x+9}{7} = \frac{-5x-9}{4}$$

A. $x \in [-39, -36.6]$

B. $x \in [-0.8, 0.2]$

C. $x \in [97.1, 99]$

D. $x \in [-2.6, -1.1]$

E. There are no real solutions.

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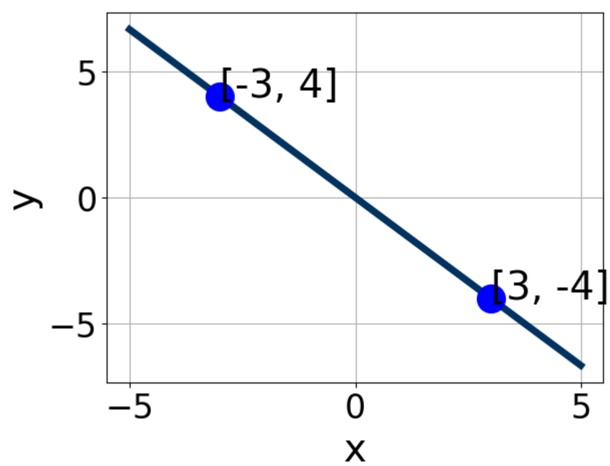
2. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [0.33, 2.33]$, $B \in [-1.2, 0.9]$, and $C \in [-3, 6]$

B. $A \in [0.33, 2.33]$, $B \in [0.2, 2.1]$, and $C \in [-3, 6]$

C. $A \in [3, 5]$, $B \in [2.9, 4.9]$, and $C \in [-3, 6]$

D. $A \in [3, 5]$, $B \in [-4.6, -2.1]$, and $C \in [-3, 6]$

E. $A \in [-5, -1]$, $B \in [-4.6, -2.1]$, and $C \in [-3, 6]$

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3. Find the equation of the line described below. Write the linear equation

in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $5x + 6y = 12$ and passing through the point $(9, 2)$.

A. $m \in [-1.23, -0.94]$ $b \in [6.2, 11.4]$

B. $m \in [-0.98, -0.67]$ $b \in [-10.7, -8.1]$

C. $m \in [-0.98, -0.67]$ $b \in [6.2, 11.4]$

D. $m \in [0.59, 0.84]$ $b \in [-6.6, -2.7]$

E. $m \in [-0.98, -0.67]$ $b \in [-7.4, -6.1]$

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4. Solve the equation below. Then, choose the interval that contains the solution.

$$-7(-11x + 8) = -9(-5x - 4)$$

A. $x \in [-0.79, -0.5]$

B. $x \in [0.45, 0.7]$

C. $x \in [2.28, 3.02]$

D. $x \in [-0.02, 0.34]$

E. There are no real solutions.

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5. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Perpendicular to $7x - 4y = 12$ and passing through the point $(-8, -10)$.

A. $m \in [-0.8, -0.5]$ $b \in [14.57, 15.57]$

B. $m \in [-0.8, -0.5]$ $b \in [-4, 0]$

C. $m \in [-2.2, -1.59]$ $b \in [-15.57, -10.57]$

D. $m \in [-0.8, -0.5]$ $b \in [-15.57, -10.57]$

E. $m \in [0.38, 1.39]$ $b \in [-8.43, -4.43]$

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6. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{9x-8}{7} - \frac{9x+5}{3} = \frac{-9x-7}{4}$$

A. $x \in [-4.3, -3.1]$

B. $x \in [9.5, 12.2]$

C. $x \in [-0.6, 0.4]$

D. $x \in [1.2, 3]$

E. There are no real solutions.

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7. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(-10, 10) \text{ and } (-8, -4)$$

A. $m \in [-7, 0]$ $b \in [15, 26]$

B. $m \in [2, 13]$ $b \in [49, 59]$

C. $m \in [-7, 0]$ $b \in [2, 6]$

D. $m \in [-7, 0]$ $b \in [-64, -56]$

E. $m \in [-7, 0]$ $b \in [57, 66]$

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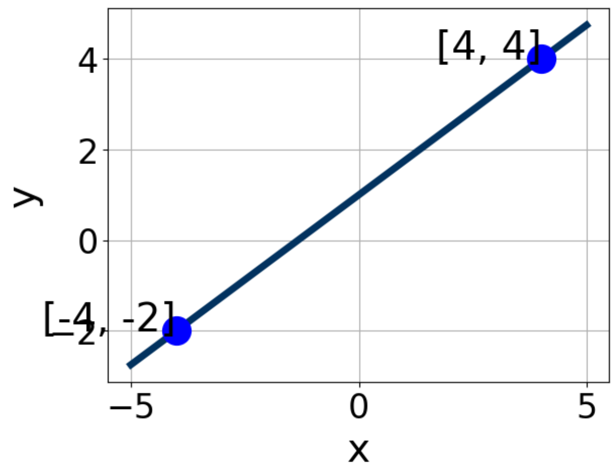
8. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [2.6, 5.1]$, $B \in [-4.19, -2.6]$, and $C \in [-5.2, -2.9]$

B. $A \in [-2.4, 2.1]$, $B \in [-1.84, -0.71]$, and $C \in [-1.1, 0.7]$

C. $A \in [2.6, 5.1]$, $B \in [2.4, 4.21]$, and $C \in [2.8, 4.9]$

D. $A \in [-2.4, 2.1]$, $B \in [0.92, 1.29]$, and $C \in [0.7, 1.2]$

E. $A \in [-3.2, -1.6]$, $B \in [2.4, 4.21]$, and $C \in [2.8, 4.9]$

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9. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx + b$ and choose the intervals that contain m and b.

$$(-9, 11) \text{ and } (-2, -10)$$

A. $m \in [-5, 0]$ $b \in [-24, -13]$

B. $m \in [-5, 0]$ $b \in [-8, -7]$

C. $m \in [-5, 0]$ $b \in [14, 17]$

D. $m \in [1, 5]$ $b \in [-6, -3]$

E. $m \in [-5, 0]$ $b \in [20, 24]$

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10. Solve the equation below. Then, choose the interval that contains the solution.

$$-10(-5x - 3) = -8(-9x - 12)$$

A. $x \in [-7.5, -4.6]$

B. $x \in [-1.2, -0.3]$

C. $x \in [5, 6.7]$

D. $x \in [-4.3, -2.1]$

E. There are no real solutions.